

ON A COLLECTION OF BIRDS FROM THE PROVINCE OF  
PUKET, PENINSULAR SIAM.

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WITH A MAP.

The district in which this collection was made is fairly well known ornithologically, but the only paper actually dealing with the area is that of August Müller, "Die Ornithologie der Insel Salanga", 1882, pp. 1—96: Naumburg a Saale, originally published as a doctoral dissertation and apparently reprinted in the "Journal für Ornithologie," 1882.

Large collections were made in the district by J. Darling on behalf of A. O. Hume, which were the subject of scattered notices in "Stray Feathers," and which are now incorporated in the British Museum, while the island of Salanga was also visited by Ernst Hartert who has made a few remarks on its Fauna (Nov. Zool., IX, pp. 222—226).

In the present paper three more subspecies are diagnosed, viz:—

<i>Cyanops mystacophones aurantiifrons</i>	} nobis,
<i>Mesobucco duvauceli stuarti</i>	
<i>Chloropsis cyanopogon septentrionalis</i>	

while two species,

*Pericrocotus roseus* (Vieill.),

*Pericrocotus cantonensis* (Swinh.),

are recorded for the first time from the Malay Peninsula, though the latter had been collected in Trang as far back as 1910.

The collections were made by native collectors without European superintendence; and details of soft parts, which men of this type cannot note with sufficient accuracy to be worth recording, are therefore lacking.

The localities visited will not be found in any ordinary map and can only be traced in the Admiralty Chart No. 2492 and the publications of the Siamese Survey Office, and we have therefore supplied an outline map on which the route of our party is marked.

The collection was made between December 20th and February 18th, and therefore comprises a considerable number of seasonal visitors which would not be found later in the year. The occurrence of the comparatively rare Cuckoo Falcon, *Baza lophotes*, in large numbers is

noteworthy, as is also the capture of the rare Rock Thrush, *Monticola gularis*.

Special acknowledgements are due to the kindness of Mr. David Heddle of Tongkah, who took charge of our collectors and made arrangements for their visits to the surrounding country and to whose efforts their success is very largely due. We are also indebted to the courtesy of the Siamese Government, who granted our men permits to shoot and admitted all our collecting material and other impedimenta free of duty.

Thanks are also due to Mr. W. J. F. Williamson for making the necessary arrangements on our behalf with the central Government at Bangkok, and to Mr. J. Bailey, H. B. M. Vice-Consul at Tongkah, for general assistance in that island. The following are the localities visited :—

1. Nong Kok, Ghirbi or Krabi, Peninsular Siam.

Some seven or eight miles from the Ghirbi, or Krabi, river, in open park-like land with patches of jungle backed with precipitous limestone hills. A very rich collecting ground.

[ In Puket or Junk Seylon Island—also known as Salanga or Tongkah Island ] :—

2. Klong Tung Sai. A low, forested range of hills in the south central part of the island.

3. Telok Palas. A large village on the east coast.

[ In the Bay between Junk Seylon Island and the mainland :—

4. Pulau Sireh. An island off the east coast of Junk Seylon Id., near Tongkah Harbour, separated by a narrow and very shallow strait from the main island.

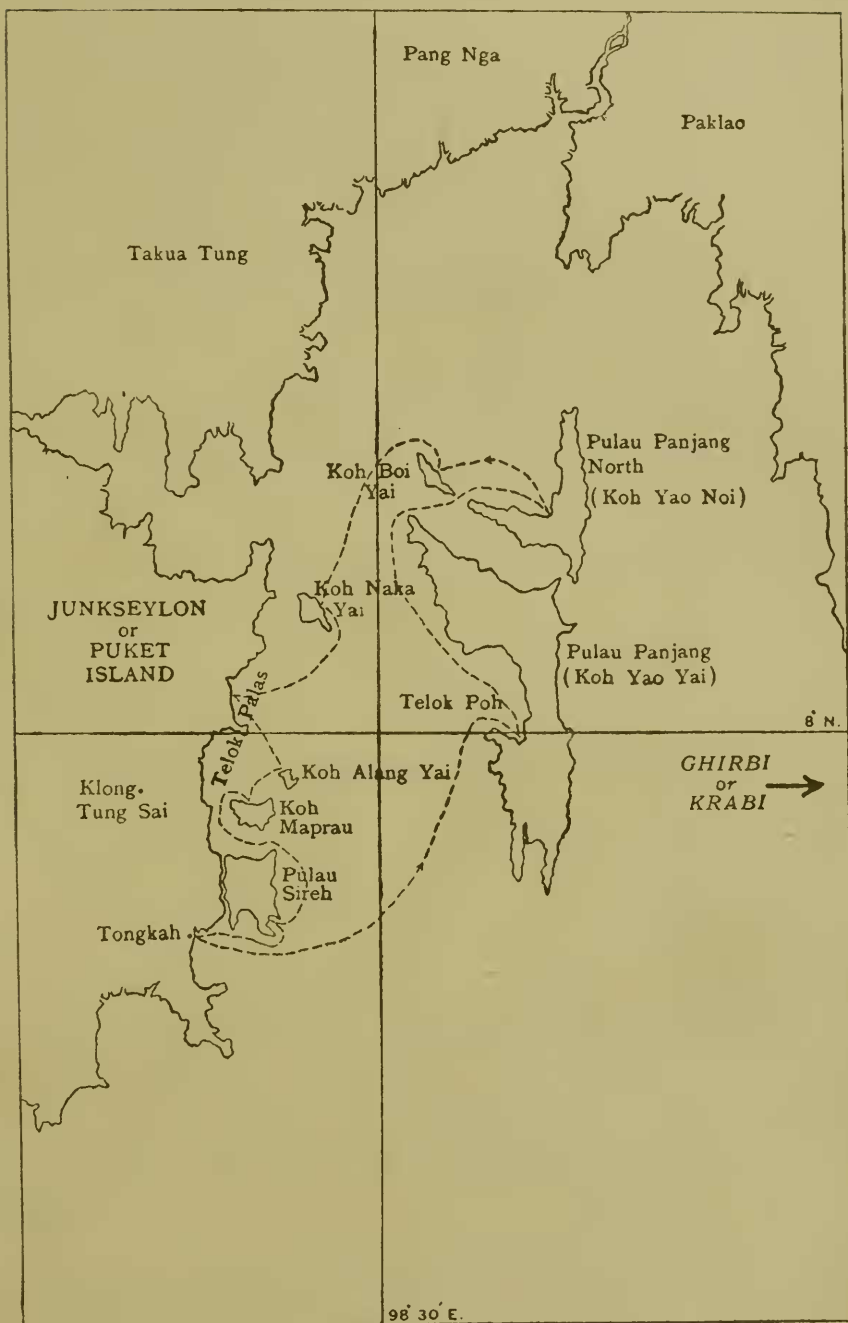
5. Koh Maprau } Small islands with small jungle to the
6. Koh Alang Yai } north of Pulau Sireh.

7. Telok Poh, Pulau Panjang (Koh Yao Yai). A village on the west side of the largest island in the Bay between Junk Seylon and the mainland.

8. Pulau Panjang North (Koh Yao Noi). An island to the north of Pulau Panjang, separated from it by a narrow shallow strait.

9. Koh Boi Yai. A small island near the western extremity of Pulau Panjang North

10. Koh Naka Yai. A small island between the northern parts of Junk Seylon and Pulau Panjang.



MAP OF PUKET ISLAND.





Müller's paper, referred to above, is quoted as "Müller," and a report entitled "On a collection of birds from the island of Langkawi and other Islands on the North-West Coast of the Malay Peninsula," by Herbert C. Robinson [Journ. Fed. Malay States Mus. VII, pp. 129—191 (1917)] is quoted as "Robinson".

### 1. *LOPHURA RUFA* (Raffles).

Ogilvie Grant, Cat. Birds Brit. Mus, XXII, p. 287 (1893).

♂. Nong Kok, Ghirbi, Peninsular Siam.

W. 268 mm.

### 2. *GALLUS GALLUS* (Linn.).

Müller, p. 80; Kloss, Ibis 1918, p. 81.

2 ♂. Telok Palas, Junk Sylon. 6—7 February 1918.

W. 220, 227 mm.

### 3. *PAVO CRISTATUS* Linn.

3 ♂. Nong Kok, Ghirbi, Peninsular Siam. 4—8 January 1918.

W. 460, 482, 477 mm.

Two specimens are in full plumage, while one, though adult, has not yet acquired the "train."

### 4. *TURNIX PUGNAX PLUMBIPES* (Hodgs.).

Stuart Baker, Journ. Bombay Nat. Hist. Soc. XXIII, p. 395 (1915).

*Turnix plumbipes*, Müller, p. 81.

♀ imm. Nong Kok, Ghirbi, Peninsular Siam. 11 January 1918.

♀ ad. Telok Poh, Pulau Panjang. 22 January 1918.

W. (ad), 88 mm.

### 5. *OSMOTRERON BICINCTA DOMVILLII* Swinh.

Robinson, Ibis 1915, p. 723.

♀. Nong Kok, Ghirbi, Peninsular Siam. 10 January 1918.

2♀. Islet near Pulau Panjang. 28, 29 January 1918.

W. ♂, 157 mm.; ♀, 157, 163.

In the Malay Peninsula this green pigeon is rare and sporadic south of Trang, and has not been met with at all south of Kuala Selangor.

### 6. *OSMOTRERON VERNANS* (Linn.).

Robinson, p. 135.

*Osmotreron viridis*, Müller, p. 78.

♂, 4 ♀. Nong Kok, Ghirbi, Peninsular Siam. 5—12 January 1918.

3 ♂, ♀. Telok Poh, Pulau Panjang. 19—26 January 1918.

♂, 2 ♀. Islet near Pulau Panjang. 29, 30 January 1918.

W. ♂, 142, 148, 150, 146, 147 mm. ♀, 147, 140, 141, 136, 139, 141, 143.

7. *TRERON CURVIROSTRA NIPALENSIS* (Hodgs.).

Robinson, p. 135.

♂ vix ad. Klong Tung Sai, Junk Sylon. 19, 20 December 1918.

W. 139, 133 mm.

8. *CARPOPHAGA ÆNEA ÆNEA* (Linn.).

Robinson, p. 136; Kloss, Ibis 1918, p. 33.

♀. Telok Poh, Pulau Panjang. 25 January 1918.

W. 222 mm.

9. *COLUMBA PUNICEA* (Tick.).

Robinson, p. 136.

♂. Telok Palas, Junk Sylon. 7 February 1918.

W. 214 mm.

10. *STREPTOPELIA SURATENSIS TIGRINA* (Temm.).

Robinson, p. 137.

*Turtur tigrinus*, Müller, p. 132.

♀. Klong Tung Sai, Junk Sylon. 26 December 1917.

W. 143 mm.

11. *GEOPELIA STRIATA* (Linn.).

Robinson, p. 137; Müller, p. 79.

♀. Nong Kok, Ghirbi, Peninsular Siam. 3 January 1918.

W. 98 mm.

12. *CHALCOPHAPS INDICA* (Linn.).

Robinson, p. 137.

♂, 2 ♀. Nong Kok, Ghirbi, Peninsular Siam. 3—6 January 1918.

♀. Koh Alang Yai. 8 February 1918.

♀. Koh Maprau. 10 February 1918.

W. ♂, 149 mm.; ♀, 144, 143, 138, 144.

13. *RALLINA FASCIATA* (Raffles).

Robinson, p. 137.

♀ sex ad. Pulau Sireh, east side of Junk Seylon. 13 February 1918.

W. 143 mm.

14. *AMAUROORNIS PHOENICURA CHINENSIS* (Bodd.).

Robinson, p. 138.

*Erythra phoenicura*, Müller, p. 86.

♂. Telok Poh, Pulau Panjang. 21 January 1918.

♀. Islet near Pulau Panjang. 31 January 1918.

W. ♂, 173 mm. : ♀, 157.

15. *SARCOGRAMMUS INDICA ATRINUCHALIS* Jerd.

Robinson, p. 138 : Kloss, *Ibis* 1918, p. 85.

*Lobiranellus atrinuchalis*, Müller, p. 82.

♂. Nong Kok, Ghirbi, Peninsular Siam. 8 January 1918.

♂. Telok Poh, Pulau Panjang. 20 January 1918.

W. 214, 222 mm.

16. *TRINGOIDES HYPOLEUCUS* (Linn.).

Robinson, p. 140 : Müller, p. 83.

♀. Nong Kok, Ghirbi, Peninsular Siam. 8 January 1918.

♂. Telok Poh, Pulau Panjang. 21 January 1918.

W. ♂, 107 mm. ♀, 103.

17. *GALLINAGO STENURA* (Bp.)

Robinson, p. 141.

♀. Telok Poh, Pulau Panjang. 24 January 1918.

♀. Islet near Pulau Panjang. 31 January 1918.

W. 123, 127 mm.

18. *PSEUDOTANTALUS LEUCOCEPHALUS* (Penn.).

Robinson, Journ. Fed. Malay States Mus. V, p. 88 (1913).

♀. imm. Nong Kok, Ghirbi, Peninsular Siam. 4 January 1918.

W. 455 mm.

Wing coverts dull brown, tertiaries rosy pink.

19. *DISSOURA EPISCOPUS* (Bodd.).

Müller, p. 85.

♀. Nong Kok, Ghirbi, Peninsular Siam. 31 December 1918.

W. 490 mm.

20. *LEPTOPTILUS JAVANICUS* (Horsf.).

*Leptoptilus dubius*, Robinson & Kloss, Ibis 1911, p. 16.

♂. Koh Naka Yai. 4 February 1918.

W. 620 mm.

The specimen recorded by us as *L. dubius* (loc. cit. supra) turns out, on re-examination, to be a large male of *L. javanicus* in breeding plumage. It has a coppery bronze subterminal band to the secondary coverts and no black tips to the under tail-coverts.

21. *GRAPTOCEPHALUS DAVISONI* (Hume).

Robinson, p. 141.

*Pseudibis papillona*, Müller, p. 85.

♀. Nong Kok, Ghirbi, Peninsular Siam. 31 December 1918.

2 ♀. Koh Naka Yai. 4 February 1918.

W. 395, 400, 390 mm.

22. *DEMIEGRETTA SACRA* (Gm.)

Robinson & Kloss, Ibis 1911, p. 15.

♂ ♀ Telok Poh, Pulau Panjang. 21 January 1918.

♂ Koh Boi Yai. 2 February 1918.

W. ♂ 280, 275; ♀ 260 mm.

All three birds are in the grey phase and in breeding plumage.

23. *BUTORIDES JAVANICA* (Horsf.).

Robinson & Kloss, Ibis 1911, p. 15; Müller, p. 84.

♂ ♀. Telok Poh, Pulau Panjang. 21—26 January 1918.

W. ♂ 175; ♀ 167 mm.

24. *ARDEOLA GRAYI* (SYKES).

♂ ♀. Telok Poh, Pulau Panjang. 19—25 January 1918.

W. ♂ 220; ♀ 206 mm.

These birds are in winter plumage and cannot be identified with any great certainty. They are, however, rather small for *A. bacchus* (Bp.), which occurs in the same district.

25. *ASARCORNIS SCUTULATA LEUCOPTERA* (Blyth).

Robinson & Kloss, Ibis 1911, p. 20.

4 ♂. Nong Kok, Ghirbi, Peninsular Siam. 1—9 January 1918.

W. 372, 364, 355, 354 mm.

All the four birds have the knob on the angle of the wing well pronounced. One, apparently very adult, is entirely black beneath: the three others rusty brown with a more or less pronounced black pectoral collar.

26. *DENDROCYCNA JAVANICA* (Horsf.).

Robinson & Kloss, Ibis 1911, p. 21.

2 ♂, 2 ♀, ad., 2 ♀, imm. Nong Kok, Ghirbi, Peninsular Siam.  
1—3 January 1918.

W. ♂ 175, 155 (moult): ♀, 170, —, 175, 173 mm.

27. *LOPHOSPIZIAS TRIVIRGATUS* (Temm.).

♀ imm. Klong Tung Sai, Junk Seylon. 27 December 1918.

W. 240 mm.

Not a very common bird in the Malay Peninsula.

28. *ASTUR BADIUS POLIOPSIS* (Hume).

Robinson & Kloss, Ibis 1911, p. 22; Kloss, Ibis 1918, p. 87.

1 ♀ imm. Klong Tung Sai, Junk Seylon. 19 December 1918.

2 ♀ ad. 1 ♀ imm. Telok Poh, Pulau Panjang. 20—26 January 1918.

W. ♀ ad. 216, 211: ♀ imm. 216, 205 mm.

The adults are without any trace of a post-cervical rufous collar.

29. *SPIZAËTUS LIMNAËTUS* (Horsf.).

Robinson & Kloss, p. 23.

♂. Nong Kok, Ghirbi, Peninsular Siam. 8 January 1918.

♂. Koh Naka Yai. 4 February 1918.

W. 380, 383 mm.

30. *BUTASTUR INDICUS* (Gm.).

Robinson & Kloss, Ibis 1911, p. 23.

♀. Nong Kok, Ghirbi, Peninsular Siam. 1 January 1918.

W. 330 mm.

Rare in the Peninsula, the only definite records being a specimen from Singapore Id. and two from Langkawi.

31. *HALLIASTUR INDUS INTERMEDIUS* Gurney.

*Halliastur indus*, Müller, p. 76.

♀. Nong Kok, Ghrbi, Peninsular Siam. 8 January 1918.  
W. 407 mm.

### 32. *BAZA LOPHOTES* (Temm.).

Robinson & Kloss, *Ibis* 1911, p. 25; Kloss, *Ibis* 1918, p. 88;  
Müller, p. 125.

3 ♂, 4 ♀. Nong Kok, Ghrbi, Peninsular Siam. 2—10 January 1918.

2 ♀. Klong Tung Sai, Junk Seylon. 26 December 1918.

1 ♀. Telok Poh, Pulau Panjang. 23 January 1918.

1 ♂. Islet off Pulau Panjang. 29 January 1918.

W. ♂, 236, 232, 236, 236; ♀, 243, 240, 231, 234, 224, 238, 236 mm.

All fully adult birds, probably on migration.

### 33. *POLIOAËTUS ICHTHYAËTUS* (Horsf.).

Robinson & Kloss, *Ibis* 1911, p. 30.

♀. Koh Alang Yai. 9 February 1918.

♂ imm. Nong Kok, Ghrbi, Peninsular Siam. 2 January 1918.

W. ♀ ad. 462; ♂ imm. 470 mm.

### 34. *KETUPA KETUPA* (Horsf.).

*Ketupa javanensis*, Robinson & Kloss, *Ibis* 1911, p. 30.

♂, ♀. Telok Poh, Pulau Panjang. 19 January 1918.

♀. Koh Alang Yai. 9 February 1918.

W. ♂, 330; ♀ 338, 341 mm.

### 35. *OTUS SCOPS MALAYANA* (Hay).

Robinson, p. 145.

♂. Telok Palas, Junk Seylon. 6 February 1918.

W. 143 mm.

A very pale grey bird.

### 36. *NINOX SCUTULATA MALACCENSIS* (Eyton).

Robinson, p. 145; Kloss, *Ibis* 1918, p. 89.

♀. Klong Tung Sai, Junk Seylon. 31 December 1918.

W. 199 mm.

Apparently belongs to the darker, smaller resident form.

### 37. *SYRNIO SELOPITO* (Horsf.).

Robinson & Kloss, *Ibis* 1911, p. 30.

♂. Koh Boi Yai. 2 February 1918.

W. 342 mm.

38. *EURYSTOMUS ORIENTALIS ORIENTALIS* (Linn.).

Robinson, p. 151.

3 ♀. Nong Kok, Ghirbi, Peninsular Siam. 2—7 January 1918.

W. 177, 185, 185 mm.

39. *EURYSTOMUS ORIENTALIS CALONYX* Sharpe.

1 ♂, 1 ♀, 1? Nong Kok, Ghirbi, Peninsular Siam. 31 December—5 January 1918.

1 ♀. Klong Tung Sai, Junk Sylon. 26 December 1917.

1 ♀. Islet off Pulau Panjang. 21—29 January 1918.

W. ♂ 191; ♀ 199, 195, 186; sex? 196 mm.

Extremes of the two races of *E. orientalis* are readily separated, but there are many intermediate birds which it is hard to assign to either form.

40. *ALCEDO ISPIDA BENGALENSIS* Gm.

Robinson p. 146.

*Alcedo bengalensis*, Müller, p. 44.

1 ♂. Klong Tung Sai, Junk Sylon. 26 December 1918.

1 ♂, 1 ♀. Telok Poh, Pulau Panjang. 19—26 January 1918.

1 ♀. Koh Alang Yai. 8 February 1918.

W. ♂. 73, 69 ♀. 70, 71 mm.

41. *ALCEDO MENINTING* Horsf.

Müller, p. 45: Robinson, p. 146.

♂. Klong Tung Sai, Junk Sylon. 21 December 1918.

W. 62 mm.

42. *HALCYON SMYRNENSIS FUSCA* (Bodd.).

Robinson, Ibis 1915, p. 732.

1 ♂, 2 ♀. Nong Kok, Ghirbi, Peninsular Siam. 1—7 January 1918.

1 ♂. Telok Poh, Pulau Panjang. 24 January 1918.

3 ♂, 2 ♀. Islet off Pulau Panjang. 28—31 January 1918.

W. ♂ 118, 116, 115, 117, 120; ♀ 122, 121, 118, 117 mm.

43. *HALCYON PILEATA* (Bodd.).

Robinson, p. 148.

*Entomobia pileata*, Müller, p. 46.

1 ♀ Telok Palas, Junk Seylon. 7 February 1918

1 ♂ Koh Maprau. 10 February 1918.

W. ♂ 129, ♀ 138 mm.

#### 44. HALCYON CHLORIS (Bodd.).

Robinson, p. 149.

*Sauropatis chloris*, Müller, p. 46.

1 ♂, 2 ♀ Telok Poh, Pulau Panjang, 19—26 January 1918.

W. ♂ 99 ♀ 105, 97 mm.

#### 45. DICHOCEROS BICORNIS (Linn.).

Robinson, p. 150; Müller, p. 50.

♂, ♀. Nong Kok, Ghirbi, Peninsular Siam. 3—7 January

1918.

2 ♂. Klong Tung Sai, Junk Seylon. 20 December 1917.

W. ♂ 480, 480, 477 : ♀. 440. mm.

#### 46. ANTHRACOCEROS ALBIROSTRIS (Shaw & Nodder).

Robinson, p. 150.

*Hydrocissa albirostris*, Müller, p. 47.

♀. Nong Kok, Ghirbi, Peninsular Siam. 2 January 1918.

W. 252 mm.

#### 47. RHYTIDOCEROS UNDULATUS (Shaw).

Robinson, p. 150; Müller, p. 48.

♂ ♀. Klong Tung Sai, Junk Seylon. 18—20 December 1917.

W. ♂ 472; ♀ 407 mm.

#### 48. UPUPA EPOPS LONGIROSTRIS Jerd.

Kloss, Ibis 1918, p. 92.

*Upupa longirostris*, Müller, p. 43.

♂ Telok Poh, Pulau Panjang. 24 January 1918.

7 ♂, 2 ♀. Islet near Pulau Panjang. 28—31 January 1918.

♂ Pulau Sireh, east side, Junk Seylon. 13 February 1918.

W. ♂. 150, 141, 137, 135, 135, 138, 139, 142, 137. ♀ 135,

134 mm.

There seems much variation in size in the Hoopoes obtained in Siam and the Malay Peninsula, but as the birds are largely migrant it is possible that the different sized birds have different breeding ranges.

#### 49. MELITTOPHAGUS LESCHENAUTI SWINHOEI Hume.

Robinson, p. 152.

*Merops quinticolor*, Müller, p. 44.



1 ♀ Nong Kok, Ghirbi, Peninsular Siam. 11 January 1918.  
4 ♂, 5 ♀ Klong Tung Sai, Junk Seylon. 19—27 December 1917.

2 ♂, 1 ♀. Telok Poh, Pulau Panjang. 19—24 January 1918.  
W. ♂ 104, 104, 108, 108, 105, 105; ♀ 107, 106, 109, 105, 106, 103, 102 mm.

50. NYCTIORNIS AMICTA (Temm.).

♂ Nong Kok, Ghirbi, Peninsular Siam. 9 January 1918.  
W. 128 mm.

51. LYNCORNIS CERVINICEPS (Gould).

Robinson, Ibis 1915, p. 735; Robinson & Kloss, Ibis 1911, p. 38.

2♂, ♀ Klong Tung Sai, Junk Seylon. 21 December 1917.  
W. ♂ 296 ♀ 292. mm.

52. CAPRIMULGUS MACRURUS AMBIGUUS Hartert.

*Caprimulgus macrurus bimaculatus*, Robinson, p. 153.

*Caprimulgus macrurus ambiguus*, Kloss, Ibis 1918, p. 94

*Caprimulgus macrurus*, Müller, p. 51.

♂. Klong Tung Sai, Junk Seylon. 24 December 1917.

♀. Pulau Sireh. 14 February 1918.

W. ♂ 201; ♀ 190 mm.

Not materially different, either in size or tint, from birds from Selangor and the vicinity of Malacca.

53. PYROTROGON ORESKIOS UNIFORMIS Robinson.

Robinson, p. 149.

*Pyrotrogon oreskios*, Kloss, Ibis 1918, p. 97.

*Orescius gouldi* (Swains.).

2 ♀ Klong Tung Sai, Junk Seylon. 21—27 December 1917.

W. 120, 121 mm.

54. SURNICULUS LUGUBRIS DICRUROIDES (Hodgs.).

Robinson, p. 156; Kloss, Ibis 1918, p. 97.

*Cacangelus lugubris* (Horsf.), Müller, p. 52.

1 ♂, 5 ♀. Nong Kok, Ghirbi, Peninsular Siam. 1—4 January 1918.

3 ♂, 1 ♀, 3? Klong Tung Sai, Junk Seylon. 20—24 December 1917.

1 ♀. Islet off Pulau Panjang. 31 January 1918.

W. ♂ 132, 139, 137, 137; ♀ 137, 136, 137, 135, 136, 134, 135; sex? 142, 135, 135 mm.

55. *HIEROCOCCYX SPARVERIODES* (Vig.).

Robinson, p. 159

♂ Nong Kok, Ghirbi, Peninsular Siam. 3 January 1918.

♂ Islet off Pulau Panjang. 30 January 1918.

W. 227, 232 mm.

56. *PENTHOCERYX SONNERATI PRAVATA* (Horsf.).

Robinson & Kloss, Journ. F.M.S. Mus., VIII, Pt. ii, p. 135 (1918).

*Penthoceryx sonnerati*, Müller, p. 52.

Nong Kok, Ghirbi, Peninsular Siam. 6 January 1918.

W. 110 mm.

57. *CACOMANTIS MERULINUS QUERULUS* Heine.

*Cacomantis querulus*, Heine, J. f. O., 1863, p. 352.

*Cacomantis threnodes*, Müller, p. 53.

*Cacomantis merulinus querulus*, Kloss, Ibis 1918, p. 98.

2 ♂ ad.; 1 ♂ vix ad. Nong Kok, Ghirbi, Peninsular Siam  
4—9 January 1918.

1 ♂, 1 ♀ imm. Telok Poh, Pulau Panjang. 25, 26 January  
1918.

W. ♂ 106, 109, 102 (vix ad.), 106; ♀ 105.

Rather smaller on the average than the true *C. m. querulus* from Tenasserim, but larger than typical *C. m. merulinus* from Java and with a darker belly; larger than *C. m. threnodes* Heine, from Malacca.

58. *CHALCOCOCCYX MACULATUS* (Gm.).

Robinson & Kloss, Ibis 1911, p. 41.

♂ ♀. Nong Kok, Ghirbi, Peninsular Siam. 6, 7 January 1918.

W. ♂ 108; ♀ 107 mm.

A very rare bird throughout the Peninsula, but commoner in the north.

59. *EUDYNAMIS ORIENTALIS MALAYANA* Cab. & Heine.

Robinson, p. 160; Kloss, Ibis 1918, p. 99

*Eudynamis malayanus*, Müller, p. 54.

3 ♂, 1 ♀. Islet off Pulau Panjang. 28—30 January 1918.

2 ♂. Koh Naka Yai. 4 February 1918.

1 ♀. Pulau Sireh, east coast, Junk Seylon. 14 February  
1918.

2 ♀. Koh Alang Yai. 8 February 1918.

W. ♂. 203, 203, 193, 196, 205: ♀. 186, 200, 201, 197 mm.

We have placed all this series under *E. o. malayana*, though two females from Pulau Panjang and Koh Alang Yai appear to agree with *E. o. honorata* (Linn.). The size of the whole series is on the maximum limit of *E. o. honorata* and the minimum of *E. o. malayana*, and we are not convinced that the continental birds are really separable.

#### 60. CENTROPUS SINENSIS INTERMEDIUS (Hume).

Robinson, p. 157.

*Centrococcyx rufipennis* (Ill.), Müller, p. 59.

♂ Nong Kok, Ghirbi, Peninsular Siam. 3 January 1918.

2 ♀ Klong Tung Sai, Junk Seylon. 20—23 December 1917.

♀ Telok Poh, Pulau Panjang. 23 January 1918.

♀ Islet off Pulau Panjang. 28 January 1918.

W. ♂ 203; ♀ 200, 204, 215, 204 mm.

#### 61. RHODYTES DIARDI (Less.).

Robinson & Kloss, Ibis 1911, p. 42.

♀ Nong Kok, Ghirbi, Peninsular Siam. 10 January 1918.

W. 128 mm.

#### 62. RHODYTES SUMATRANUS (Raffles).

Robinson, p. 158; Müller, p. 57.

♀ Nong Kok, Ghirbi, Peninsular Siam. 10 January 1918.

W. 135 mm.

#### 63. UROCOCCYX ERYTHROGNATHUS (Hartl.).

Robinson & Kloss, Ibis 1911, p. 43.

*Rhamnococcyx erythrognahtus*, Müller, p. 57.

2 ♂, 2 ♀. Nong Kok, Ghirbi, Peninsular Siam. 4—8 January 1918.

2 ♀. Klong Tung Sai, Junk Seylon. 24—26 December 1917.

W. ♂, 175, 177; ♀. 174, 165, 175, 165 mm.

#### 64. CALORHAMPHUS HAYI (J. E. Gray).

Robinson, p. 165.

♀ Klong Tung Sai, Junk Seylon. 20 December 1917.

W. 85 mm.

Almost at the northern limit of its range.

65. *CYANOPS MYSTACOPHANES AURANTIIFRONS*, subsp. nov.

*Megalæma mystacophanes*, Müller, p. 75.

Differs from all other forms of the species in having the forehead orange, merging more gradually into the crimson of the occiput, not clear bright yellow sharply defined therefrom.

*Type.* Adult male. Nong Kok, Ghirbi, Peninsular Siam. 3 January 1918.

Wing, 99; tail, 56; tarsus, 27; bill from gape, 42 mm.

Specimens examined:—

2 ♂ Nong Kok, Ghirbi, Peninsular Siam. 3—5 January 1918.

♂, ♂ imm. Pulau Sireh, near Junk Seylon. 14 February 1918.

W. 99, 99, 99, 92 (imm.).

We have compared with this series a male from the Bencoolen district of Sumatra (typical of the species), 3 males (1 imm.) from Sarawak, typical of *C. m. humii* Marshall, which is very doubtfully distinct, and 11 adults from various parts of the Malay Peninsula, which also agree with the Sumatran birds but have been named *C. quadricolor* (Eyton, P. Z. S. 1839, p. 105; On Malaccan birds). Müller (loc. cit. supra) has already noted the differences cited above.

66. *MESOBUCCO DUVAUCELI STUARTI*, subsp. nov.

*Xantholema Duvacelli*, Müller, p. 75.

A form allied to *M. d. cyanotis* and, like it, with blue ear-coverts and a poorly developed black pectoral patch and pale red subocular spot intermixed with yellow; but post-auricular and post-malar spots deep red and the size noticeably smaller.

*Type.* Adult male. Collected at Klong Tung Sai, Junk Seylon on 22 December, 1917.

W. 78, 75,\* 73; Tail, 49, 49,\* 49; Bill from gape, 24.5, 25.0,\* 24.5 mm.

This is the bird which we have hitherto regarded as typical *M. d. cyanotis* (Blyth), which is not the case. *Mesobucco duvauceli orientalis*† Robinson, a larger bird with yet paler red areas on the head, is possibly synonymous with the true *M. d. cyanotis*, a point

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\* Type.

† Ibis 1915, p. 738.

which can be only decided by examination of the types or other specimens from Arakan.

*Range.* As at present known, Bandon to Trang.

*Specimens examined.* Nine (wings, 73—79). Wing, *M d. orientalis*, 83—84 mm.

#### 67. *XANTHOLÆMA HÆMACEPHALA* (P. L. S. Müll.).

Robinson, p. 165, Müller, p. 75.

2 ♂, 4 ♀ Telok Poh, Pulau Panjang. 21—26 January 1918.

1 ♂ Islet near Pulau Panjang. 29 January 1918.

W ♂ 84, 78, 84 mm. ♀ 79, 78, 76 (worn), 76 mm.

#### 68. *GEVINUS VIRIDANUS* (Blyth).

*Gecinus viridanus*, Robinson, Journ. F. M. S. Mus., vii, p. 164;

Kloss, Ibis 1918, p. 104.

*Gecinus weberi*, Müller, p. 69.

2 ♀. Klong Tung Sai, Junk Seylon. 21—26 December 1917.

♂, ♀. Koh Maprau. 11 February 1918.

♂. Koh Boi Yai. 2 February 1918.

♂, ♀. Telok Poh, Pulau Panjang. 20—25 January 1918.

♂. Pulau Panjang North. 30 January 1918.

♂, ♀. Pulau Sireh. 13, 14 February 1918.

♂. Nong Kok, Ghirbi, Peninsular Siam. 1 January 1918.

W. ♂, 130, 138, 135, 129, 136, 135. ♀, 134, 136, 138, 136, 132.

Junk Seylon specimens were described as a distinct species by Müller under a misapprehension, as he compares them throughout with *G. striolatus* (Blyth) and *G. vittatus* (Vieill.), but does not mention the present form. The above series, and others from Pulau Lontar, Pulau Muntia and Pulau Telibun, agree with those from the mainland, though there is considerable variation in the limit of green above and below, some being much more bronzy than others.

#### 69. *GEVINULUS VIRIDIS ROBINSONI* Kloss.

Kloss, Ibis 1918, p. 105.

♀ Nong Kok, Ghirbi, Peninsular Siam. 2 January 1918.

W ♀ 127 mm.

The distinctions on which this race is founded are somewhat fine, but are still perceptible when a large series is examined.

#### 70. *IYNGIPICUS CANICAPILLUS* Blyth.

Robinson & Kloss, Ibis 1911, p. 46

- 2 ♂, ♀. Telok Poh, Pulau Panjang. 21—24 January 1918.  
 ♀. Islet off Pulau Panjang. 28 January 1918.  
 W. ♂. 83, 78; ♀ 84, 83, 81 mm.

71. *MICROPTERNUS BRACHYURUS* (Vieill.).

- 1 ♂, 1 ? Nong Kok, Ghirbi, Peninsular Siam. 31 December 1917.  
 W. 112, 117 mm.

72. *Callolophus miniatus malaccensis* (Lath.).

*Callolophus malaccensis*, Müller, p. 68.

- 1 ♂, 1 ♀. Nong Kok, Ghirbi, Peninsular Siam. 10 January 1918.

1 ♀. Klong Tung Sai, Junk Seylon. 25 December 1917.

W. ♂ 127; ♀ 127, 127 mm.

Showing no approach to *C. m. perlutus* from Koh Lak, S. W. Siam (Kloss, Ibis 1918, p. 110).

73. *CHRYSOCOLAPTES GUTTACRISTATUS GUTTACRISTATUS* (Tickell).

*Chrysocolaptes guttacristatus indo-malayicus*, Robinson, p. 162.

*Indopicus strictus*, Müller, p. 61.

*Chrysocolaptes guttacristatus guttacristatus*, Kloss, Ibis 1918, p. 111.

- 2 ♂. Nong Kok, Ghirbi, Peninsular Siam. 10—12 January 1918.

1 ♂. Klong Tung Sai, Junk Seylon. 21 December 1917.

♀ Islet off Pulau Panjang. 9 January 1918.

♂ Koh Naka Yai. 5 February 1918.

W. ♂ 151, 155, 158, 153; ♀ 155 mm.

The specimen from Junk Seylon is an absolute topotype of *Chrysocolaptes guttacristatus indo-malayicus*, Hesse (Ornith. Monatsb., p. 182). We think however that the author has diagnosed his form by comparison with the large Himalyan and not with the typical central Indian race, and that any real differences therefore remain to be demonstrated.

74. *SASIA ABNORMIS EVERETTI* Hargitt.

*Sasia abnormis*, Robinson & Kloss, p. 48.

♀ Nong Kok, Ghirbi, Peninsular Siam. 10 January 1918.

W. 535 mm.

75. *CALYPTOMENA VIRIDIS* Raffles.

Muller, p. 41.

♀ Klong Tung Sai, Junk Seylon. 22 December 1917.

W. 107 mm.

76. *CORYDON SUMATRANUS* (Raffles).

Muller, p. 43.

2 ♀. Klong Tung Sai, Junk Seylon. 20—22 December 1917.

W. 136, 138.

77. *CYMBORHYNCHUS MACRORHYNCHUS MALACCENSIS* Salvad.

Muller, p. 42.

1 ♂, 3 ♀. Nong Kok, Ghirbi, Peninsular Siam. 2—12 January 1918.

W. ♂ 100 mm.; ♀ 97, 97, 94.

The male has a white spot on the 4th pair of tail feathers; one female has 3 pairs of tail feathers spotted, one has 4 pairs spotted and a spot on the inner web of the fifth pair.

78. *EUCICHLA GURNEYI* Hume.

Robinson & Kloss, Ibis 1911, p. 49.

*Pitta gurneyi*, Hume, Stray Feathers, III, p. 296, pl. III.

♂ Klong Tung Sai, Junk Seylon. 21 December 1917.

W. 102 mm.

Apparently not nearly so common on this island as on the mainland of Trang, further to the south.

79. *HIRUNDO BADIA* Cass.

Robinson, p. 166.

1 ♂, 2 ♀, Nong Kok, Ghirbi, Peninsular Siam. 2—5 January 1918.

W. 139; ♀ 138, 137 mm.

80. *HEMICHELIDON SIBIRICA FULIGINONA* (Hodgs.).

*Hemichelidon fuliginona*, Hodgs. P. Z. S. 1845, p. 32.

♀, 1 (?) imm. Klong Tung Sai, Junk Seylon. 18—27 December 1917.

W. 27; imm. (?) 70 mm.

The unsexed bird is very much darker above and below, with a smaller bill and rufous buff edgings to the wing coverts well marked:



it is probably younger than the other specimen. The species is rare in the Malay Peninsula. We have half a dozen specimens from Trang to Selangor shot in December, January or April.

### 81. *ALSEONAX LATIROSTRIS* (Raffles).

Robinson, p. 168 ; Müller, p. 11.

♂ Nong Kok, Ghirbi, Peninsular Siam. 2 January 1918.

♂, ♀, Klong Tung Sai, Junk Seylon. 26, 27 December 1917.

♂ Telok Poh, Pulau Panjang. 19 January 1918.

2 ♀ Islet near Pulau Panjang. 30, 31 January 1918.

W. ♂, 67, 68, 67 ; ♀ 66, 68, 68 mm.

### 82. *CYORNIS MAGNIROSTRIS* Blyth.

Robinson & Kloss, Ibis 1911, p. 51 (Trang).

[♀] ♂ imm. Nong Kok, Ghirbi, Peninsular Siam. 12 January 1918.

♂, ♀. Klong Tung Sai, Junk Seylon. 21 December 1917.

W. ♂ 78, 74 imm. 76 (imm. Trang) ; ♀ 75.

The specimen sexed [♀] by the collector (but almost certainly an immature male, as it has a few blue feathers on the forehead) precisely agrees with the immature males from Chong Hill, Trang, obtained by us in December 1910.

### 83. *MUSCITREA GRISOLA GRISOLA* (Blyth).

Robinson, p. 169.

♂ Telok Poh, Pulau Panjang. 20 January 1918.

W. 86 mm.

### 84. *GERYGONE MODIGLIANI PECTORALIS* Davison.

*Gerygone pectoralis*, Davison, Ibis 1892, p. 99.

*Gerygone griseus*, Gyldenstolpe, Ornith. Monatsb. p. 27 (1916) : id. Kungl. Sv. Akad. Handl., 56, No. 2, p. 78, Pl. 2, fig. 2 (1917).

♀ Islet near Pulau Panjang. 28 January 1918.

W. 48 mm.

We have dealt elsewhere with *Gerygone griseus*, founded on a single specimen from Kok Lak. The form appears quite inadmissible even as a subspecies, but it is futile to attempt to divide the species into local races based on single individuals.

### 85. *HYPOTHYMIS AZUREA PROPHATA* Oberholser.

Robinson, p. 170 ; Kloss, Ibis 1918, p. 191.



♂ imm. Nong Kok, Ghirbi, Peninsular Siam. 4 January 1918.  
 ♂ Klong Tung Sai, Junk Seylon. 22 December 1917.  
 2 ♂ Telok Poh, Pulau Panjang. 23—26 January 1918.  
 W. ♂ 69 (imm.), 70; ♀ 72, 72 mm.

86. RHIPIDURA JAVANICA (Sparrm.).

Kloss. Ibis 1918, p. 192.  
 ♀ Koh Boi Yai. 3 February 1918.  
 W. 73 mm.

87. TERPSIPHONE PARADISI AFFINIS (A. Hay.).

Robinson, p. 170.  
*Terpsiphone affinis*, Muller, p. 11.  
 ♂ ♀ Nong Kok, Ghirbi, Peninsular Siam. 2—10 January 1918.  
 ♂, ♂ imm. ♀ imm. Klong Tung Sai, Junk Seylon. 19—25  
 December 1917.

♂ Telok Poh, Pulau Panjang. 23 January 1918.  
 W. ♂ 87, 87, 84 (imm.) 88; ♀ 87, 79 (imm.),

88. LALAGE FIMBRIATA NEGLECTA (Hume).

*Campophaga neglecta*, Robinson & Kloss, Ibis. 1918, p. 54.  
 1, ♂ ad. Klong Tung Sai, Junk Seylon. 19 December 1917.  
 ♂ ad. Telok Poh, Pulau Panjang. 20 January 1918.  
 ♀ Islet off Pulau Panjang. 29 January 1918.  
 W. ♂ 97, 104; ♀ 100 mm.

The species grades from a form with grey head, white under tail-coverts and broad white tips to the tail feathers=*L. f. neglecta* (Hume) supra, to one with black head, dark grey under tail-coverts and only faint grey tips to the tail feathers=*L. schierbrandi* Pelzeln, from Borneo.

89. PERICROCOTUS ROSEUS (Vieill.).

Oates, Faun. Brit. Ind. Birds, ii, p. 486 (1889).  
 ♀ Klong Tung Sai, Junk Seylon. 21 December 1917.  
 W. 87 mm.

This species also has not hitherto been recorded from south of Mergui.

90. PERICROCOTUS CINEREUS Lafr.

Robinson, p. 168, Müller, p. 13.

♀ Nong Kok, Ghirbi, Peninsular Siam. 9 January 1918.  
W. 93 mm.

### 91. PERICROCOTUS CANTONENSIS Swinh.

Swinh., Ibis 1861, p. 42.

*Pericrocotus cinereus*, Robinson & Kloss, Ibis 1911, p. 55 (partim).

♀ Nong Kok, Ghirbi, Peninsular Siam. 5 January 1918.

2 ♂, 2 ♀. Klong Tung Sai, Junk Seylon. 19—23 December 1917.

W. ♂ 92, 87; ♀ 86, 87, 89 mm.

We have two specimens from Chong, Trang, shot on the 10th December 1909, which were erroneously identified as *P. cinereus* in our paper on that collection. The species can always be separated from females and young of *P. cinereus* by the pale clay-coloured rump and upper tail-coverts, these parts being uniform with the mantle in the former species.

The bird has not hitherto been recorded from the Malay Peninsula. It has been obtained at Malewoon, S. Tenasserim, by Mr. Oates collectors (Stray Feathers, X, p. 200 (1887).

### 92. AEGITHINA VIRIDISSIMA (Bp.).

Robinson, p. 171.

1 ♂ Klong Tung Sai, Junk Seylon. 23 December 1917.

W. 60 mm.

### 93. AETHORHYNCHUS LAFRESNAYEI (Hartl.).

*Iora Lafresnayeri* Müller, p. 15.

3 ♂, ♀ Nong Kok, Ghirbi, Peninsular Siam. 3—12 January 1918.

1 ♂ Klong Tung Sai, Junk Seylon. 23 December 1917.

W. ♂ 70, 72, 70, 73 mm; ♀ 69.

### 94. CHLOROPSIS ICTEROCEPHALA (Wald.).

Robinson, p. 172.

*Phyllornis icterocephala*, Muller, p. 34.

2 ♀ Klong Tung Sai, Junk Seylon. 22—25 December 1917.

1 ♀ Pulau Sireh, E. side Junk Seylon. 13 February 1918.

W. 79, 78, 76.

95. *CHLOROPSIS CYANOPOGON SEPTENTRIONALIS* subsp. nov.

The northern birds down to about Kedah differ from southern Perak, Selangor, Pahang and Negri Sembilan and also Bornean specimens in having a clearly defined, though narrow, yellow line dividing the black of the throat from the green of the breast. The forehead also is distinctly yellower in the northern birds. These distinctions are quite constant in the large series of specimens available, though we have unfortunately been unable to examine adult males from Sumatra.

Type of the subspecies ♂ and ♀ Nong Kok, Ghirbi, Peninsular Siam. 11 and 8 January 1918.

♂ Wing, 80; tail, 68; tarsus, 18; bill from gape, 19 mm.

♀ Wing, 70; tail, 60; tarsus, 18; bill from gape, 19 mm.

3 ♂ ad., 1 ♂ imm. ♀. Nong Kok, Ghirbi, Peninsular Siam. 2—11 January 1918.

2 ♂ ♀ ad. Chong, Trang, Peninsular Siam. 3—16 December 1909.

2 ♂ ad. Perlis, Malay States, Siam. 3—21 November 1919.

♂ ♀ Gurun, Kedah, Malay States. 14 December 1915.

W. ♂ 80, 81, 78, 80, 76, 73, 81, 78 mm.; ♀ 70, 75, 75 mm.

96. *IREXA PUELLA PUELLA* (Lath.).

*Irena puella*, Müller, p. 29.

♀ Nong Kok, Ghirbi, Peninsular Siam. 9 January 1918.

4 ♂, 1 ♀ Klong Tung Sai, Junk Seylon. 18—25 December 1917.

3 ♂, 1 ♀, ♂ imm. Telok Poh, Pulau Panjang 21—26 January 1918.

W. ♂ 124, 123, 124, 120, 125, 118, 119, 120; ♀. 114, 118 mm.

97. *MICROTARSUS MELANOCEPHALUS* (Gm.).

Robinson, p. 173.

*Proscenna melanocephala*, Müller, p. 29.

3 ♂ Nong Kok, Ghirbi, Peninsular Siam. 1—12 January 1918.

1 ♂, 3 ♀ Telok Poh, Pulau Panjang. 20—24 January 1918.

1 ♂ Islet off Pulau Panjang. 30 January 1918.

W. ♂ 78, 78, 79, 79, 78; ♀ 78, 78, 77 mm.

98. *CRINIGER OCHRACEUS* (MOORE).

*Criniger cabanisi*, Müller, J. f. O. 1882, p. 384.

*Criniger sordidus*, Richmond, Proc. U. S. Nat. Mus., p. 320 (1900).

*Criniger salangae*, Sharpe, Handl. Birds, III, p. 316 (1901).

*Criniger ochraceus*, Robinson, Ibis 1915, p. 746.

♀ Nong Kok, Ghirbi, Peninsular Siam. 6 January 1918.

W. 99 mm.

The Ghirbi bird is sufficiently close to the type locality of *C. cabanisi* Müll. (Junk Seylon) to enable us to predicate that no differences occur in specimens from the two localities. The above specimen agrees exactly with a paratype of *C. sordidus* and others from Trang which we have elsewhere shown to be in all probability referable to *C. ochraceus* Moore, the type of which was obtained by Helfer probably in the Mergui district of Tenasserim.

99. *TRACHYCOMUS OCHROCEPHALUS* (Gm.).

1 ♂, 3 ♀ Nong Kok, Ghirbi, Peninsular Siam. 8—12 January 1918.

W. ♂ 118; ♀ 122, 118, 120 mm.

100. *PRYNXOTUS ANALIS* (Horsf.).

*Loedoruna analis*, Muller, p. 27.

♂ Islet off Pulau Panjang. 30 January 1918.

W. 86 mm.

101. *PRYNXOTUS FINLAYSONI* (Strickl.).

Robinson, p. 173.

*Loedoruna finlaysoni*, Muller, p. 28.

1 ♂, 1 ♀ Nong Kok, Ghirbi, Peninsular Siam. 3—11 January 1918.

1 ♀ Klong Tung Sai, Junk Seylon. 19 December 1917.

W. ♂ 78; ♀ 79, 80 mm.

102. *PRYNXOTUS PLUMOSUS* Blyth.

Robinson, p. 174.

*Loedoruna plumosus*, Muller, p. 27.

2 ♂ Nong Kok, Ghirbi, Peninsular Siam. 2—12 January 1918.

1 ♂ Klong Tung Sai, Junk Seylon. 21 December 1917.

3 ♂, 3 ♀ Telok Poh, Pulau Panjang. 20—26 January 1918.

♂ ♀ Islet off Pulau Panjang. 30, 31 January 1918.

♀ Koh Naka Yai. 4 February 1918.

W. ♂ 83, 87, 85, 89, 85, 86, 83; ♀ 82, 83, 81, 86, 81 mm.

103. *PYCNONOTUS BRUNNEUS* (Blyth).

*Pycnonotus simplex*, Robinson, p. 174.

1 ♂, Nong Kok, Ghirbi, Peninsular Siam. 7 January 1918.

♂ ♀ Klong Tung Sai, Junk Seylon. 19—22 December 1917.

W. ♂ 86, 86; ♀ 80 mm.

104. *OTOCOMPSA EMERIA* (Shaw.)

*Otocompsa pyrrhotis* (Hodg.), Müller, p. 26.

1 ♂, 3 ♀. Nong Kok Ghirbi, Peninsular Siam. 4—7 January 1918.

1 ♂, 2 ♀. Pulau Sireh. 14 February 1918.

W. ♂ 78, 77; ♀ 77, 79, 77, 75, 75 mm.

105. *OTOCOMPSA FLAVIVENTRIS MINOR* Kloss.

Ibis, 1918, p. 203.

♂. Nong Kok, Ghirbi, Peninsular Siam. 4 January 1918.

Wing 82 mm.

Agrees with the type of this slightly differentiated subspecies.

106. *PELLORNEUM SUBOCHRACEUM* Swinh.

Robinson, p. 175.

*Pellorneum minor*, Müller, p. 19.

2 ♂, 3 ♀ Nong Kok, Ghirbi, Peninsular Siam. 2—11 January 1918.

2 ♂ Klong Tung Sai, Junk Seylon. 22—27 December 1917.

W. 65, 65, 59, 60; ♀ 57, 60, 64 mm.

107. *MALACOCINCLA ABBOTTI* (Blyth).

*Trichastoma abbotti*, Müller, p. 28.

*Malacocincla abbotti*, Robinson, p. 175.

*Malacocincla abbotti abbotti*, Kloss, Ibis 1918, p. 202.

2 ♂, 2 ♀, 1 ? Klong Tung Sai, Junk Seylon. 19—24 December 1917.

4 ♂, 2 ♀ Telok Poh, Pulau Panjang. 19—25 January 1918.

1 ♀ Islet off Pulau Panjang. 23 January 1918.

1 ♀ Koh Boi Yai. 2 February 1918.

W. ♂ 75, 75, 76, 77, 73, 73; ♀ 69, 72, 72, 72, 70, 73 mm.

108. *Turdinus magnirostris* Moore.

♂. Klong Tung Sai, Junk Sylon. 22 December, 1918.

W. 76 mm.

109. *Turdinus macrodactylus* (Strickl.)

Müller, p. 18.

♂. Nong Kok, Ghirbi, Peninsular Siam. 11 January 1918.

W. 87 mm.

This locality marks the northernmost extension of this Malayan Ground-Babbler.

110. *Cyanoderma erythropterum* (Blyth).*Napodes erythroptera* (Blyth), Müller, p. 19.*Cyanoderma erythropterum sordida*, Stuart Baker, Bull. Brit. Orn. Club., XXXVIII, p. 10 (1917).

2 ♂ Klong Tung Sai, Junk Sylon. 19—24 December 1917.

W. 59, 61 mm.

These specimens are no darker than birds from Negri Sembilan, in close vicinity to the original type locality.

111. *Mixornis rubricapilla connectens* Kloss.

Kloss, Ibis 1918, p. 207.

*Mixornis rubricapilla rubricapilla*, or subsp. nov., Robinson, p. 177.*Mixornis gularis*, Müller, p. 18.

♂ Nong Kok, Ghirbi, Peninsular Siam. 11 January 1918.

♂. ? Klong Tung Sai, Junk Sylon. 25, 26 December.

W. 58, 60, 60 mm.

112. *Myiophoneus eugenei crassirostris* Robinson.

Robinson, p. 178.

6 ♂, 2 ♀. Nong Kok Ghirbi, Peninsular Siam. 31 December, 1917—9 January 1918.

W. ♂ 180, 172, 164, 172, 170, 164; ♀ 170, 157 mm.

All these birds have pale tips to the wing coverts and strongly marked whiter bases to the body feathers, and cannot therefore be referred to *M. eugenei* which occurs at Koh Lak, 250 miles to the north. (*vide* Ibis 1918, p. 207).

113. *Geocichla citrina citrina* (Lath.).

Robinson, p. 179.

2 ♂ ad., 1 ♂ imm., 3 ♀. Nong Kok, Ghirbi, Peninsular Siam. 1—12 January 1918.

2 ♂, ♀. Klong Tung Sai, Junk Seylon. 18—26 December 1918.

2 ♂, 4 ♀. Pulau Sireh, near Junk Seylon. 13, 14 February 1918.

2 ♂, 3 ♀. Telok Poh, Pulau Panjang. 19—24 January 1918.

2 ♂, ♀ sex ad. Koh Boi Yai. 2 February 1918.

W. ♂ 110, 115, 112, (imm.), 122, 112, 118, 117, 117, 112, 113, 110; ♀ 113, 112, 111, 114, 112, 111, 113, 109, 112, 116, 118, 109 mm.

This fine series shows that old females approach the male in colouration, though they always have some mark of ochraceous on the mantle.

Some immature birds have darker ear-coverts with a paler median transverse bar, therein agreeing with the Hainan bird, "*Turdus citrinus aurinacula*", Hartert, Nov. Zool., XVII, p. 256 (1910). One bird only has no signs of white on the wing coverts. In contradistinction to Oates (Faun. Brit. Ind., Birds, ii. p. 141 (1890). we have never seen a bird south of Trang which has no white on the wing coverts, and doubt if they occur. We do not believe the species is found in Malacca in the modern sense of the word.

#### 114. *TURDUS OBSCURUS* (Gm.).

Robinson, p. 180.

*Merula obscura*, Müller, p. 5.

2 ♀ ad. Nong Kok, Ghirbi, Peninsular Siam. 11, 12 January 1918.

♀ ad. Telok Poh, Pulau Panjang. 23 January 1918.

♀ ad. Pulau Sireh, W. side Junk Seylon. 14 February 1918.

W. 123, 117, 114, 118 mm.

#### 115. *MONTICOLA SOLITARIUS PANDOO* (Sykes).

Robinson, p. 180.

*Monticola solitarius*, Müller (part.), p. 5.

♀ Nong Kok, Ghirbi, Peninsular Siam. 12 January 1918.

2 ♂ vix ad. Koh Alang Yai. 8 February 1918.

♀ imm. Telok Poh, Pulau Panjang. 25 January 1918.

W. ♂ 114, 116; ♀. 120, 113.

Agreeing with specimens from the islands further south.

#### 116. *MONTICOLA SOLITARIUS PHILIPPENSIS* (P. L. S. Mull.).

Robinson, p. 181.

*Monticola solitarius*, Müller, p. 5 (part).

♂ vix ad. ♂ imm. ♀. Nong Kok, Ghirbi, Peninsular Siam.  
4–12 January 1918.

W. ♂ 120, 113; ♀ 110 mm.

The nearly adult male has the vent and under-tailcoverts chestnut, the immature male has traces of chestnut on the belly.

#### 117. *Monticola gularis* (Swinh.).

Hartert, Vog. Palaarkt. Faun., 1, p. 673 (1910): Robinson, *Ibis* 1915, p. 752.

♂ Nong Kok, Ghirbi, Peninsular Siam. 5 January 1918.

W. 98 mm.

A rare species breeding in Manchuria and East Siberia. Wintering in S. Annam, Cambodia and Siam. One specimen is also on record from the Perak Hills.

#### 118. *Hydrocichla frontalis* (Blyth).

♂, ♀ imm Klong Tung Sai, Junk Seylon. 25, 26 December 1918.

W. ♂ 88; ♀ 88 mm.

#### 119. *Larvivora cyanea* (Pall.).

Robinson, p. 181.

♂ ad. Telok Poh, Pulau Panjang. 21 January 1918.

♀ ad. Klong Tung Sai, Junk Seylon, 22 December 1917.

W. ♂. 71 mm. ♀. 67 mm.

#### 120. *Copsychus saularis musicus* (Raffles).

*Copsychus mindanensis*, Müller, p. 6.

♂. Klong Tung Sai, Junk Seylon. 26 December 1917.

W. 94 mm.

The pale ashy brown colouration on the sides of the flanks is much more marked than in most Malayan specimens.

#### 121. *Kittochla macrurus macrurus* (Gm.).

Robinson, p. 181.

*Copsychus macrurus*, Müller, p. 8.

3 ♀. Nong Kok, Ghirbi, Peninsular Siam. 2–12 January 1918.

♂, ♀ Klong Tung Sai, Junk Seylon. 21–24 December 1917.

♂ Telok Poh, Pulau Panjang. 20 January 1918.

♂ Koh Boi Yai, E. side Junk Seylon. 2 February 1918.

W. ♂ 92, 94, 93, 91, 92, 94; ♀. 85, 85 mm.



122. ORTHOTOMUS ATRIGULARIS (Temm.).

Robinson, p. 182.

♂ Islet off Pulau Panjang. 30 January 1918.

W. ♂ 45 mm.

123. FRANKLINIA RUFESCENS Blyth.

*Franklinia rufescens beavani*, Kloss, Ibis 1918, p. 211.

2 ♂, 2 ♀. Nong Kok, Ghirobi, Peninsular Siam. 9 January 1918.

W. ♂ 41, 43; ♀ 39, 41 mm.

124. ARUNDINAX AEDON (Pall.).

*Luscinola aedon*, Seebold, Cat. B. Brit. Mus. V. p. 121.

2 ♂. Nong Kok, Ghirobi, Peninsular Siam. 1—11 January 1918.

W. 74, 77 mm.

This is the first authentic record of this species for the Malay Peninsula, though it has been obtained by Davison as far south in Tenasserim as Malewoon (Stray Feath. VI. p. 339 (1878).

125. PHYLLOSCOPUS SUPERCILIOSA SUPERCILIOSA (Gm.).

Robinson, p. 183.

♂ Nong Kok, Ghirobi, Peninsular Siam. 9 January 1918.

♂ Islet near Pulau Panjang. 30 January 1918.

W. 56, 57 mm.

126. PHYLLOSCOPUS BOREALIS BOREALIS (Blas.).

Robinson, p. 183.

4♂, 2 ♀. Nong Kok, Ghirobi, Peninsular Siam. 2—9 January 1918.

3 ♂. Klong Tung Sai, Junk Seylon. 20—25 December 1917.

2 ♀. Islet near Pulau Panjang. 30 January 1918.

W. ♂, 61, 64, 62, 63, 63, 66, 62; ♀, 61, 61, 67, 62 mm.

These specimens have the first primary very narrow and short, extending beyond the primary coverts.

♂ Nong Kok, Ghirobi, Peninsular Siam. 12 January 1918.

♂ Klong Tung Sai, Junk Seylon. 25 December 1917.

♂ Telok Poh, Pulau Panjang. 21 January 1918.

W. 64, 62, 62 mm.

These birds are slightly darker above, with the first primary

broadly and decidedly longer; but in view of their size they can hardly be considered *P. b. xanthodryas* Swinh. The whole series have the second primary between the 5th & 6th in length.

127. *PHYLLOSCOPUS CORONATA* (Temm. & Schleg.).

Müller, p. 10.

♂, ♀. Klong Tung Sai, Junk Seylon. 19—26 December 1917.

W. ♂ 61 ♀ 57 mm.

128. *TEPHRODORNIS PELVICUS ANNECTENS* Rob. & Kloss.

Journ. Fed. Malay States. Mus., VIII, p. 222 (1918).

*Tephrodornis gularis*, Müller, p. 19.

5 ♂. Klong Tung Sai, Junk Seylon. 20—26 December 1917.

W. 102, 103, 104, 105, 108 mm.

129. *PLATYLOPHUS ARDESIACUS* Cab.

Robinson & Kloss, Ibis 1911, p. 69.

♂, ♀. Nong Kok, Ghirbi, Peninsular Siam. 11 January 1918.

W. 143, 137 mm.

130. *LANIUS CRISTATUS CRISTATUS* Linn.

Robinson, p. 184.

2 ♂. Nong Kok, Ghirbi, Peninsular Siam. 3, 4 January 1918.

♂. Klong Tung Sai, Junk Seylon. 27 December 1917.

♀ Islet off Pulau Panjang. 30 January 1918.

W. ♂ 85, 88, 84, ♀. 87 mm.

131. *MELANOCHLORA SULTANEA FLAVOCRISTATA* (Lafr.).

Robinson & Kloss, Ibis 1911, p. 70.

Müller, p. 30.

♂. Nong Kok, Ghirbi, Peninsular Siam. 9 January 1918.

W. 99 mm.

132. *CORVUS MACRORHYNCHUS* (Wagl.).

Robinson & Kloss, Ibis 1911, p. 71.

♀. Nong Kok, Ghirbi, Peninsular Siam. 31 December 1917.

W. 317 mm.

133. *PLATYSMURUS LEUCOPTERUS* (Temm.).

Robinson & Kloss, Ibis 1911, p. 71.

*Glenargus leucopterus*, Müller, p. 41.

2 ♂, 2 ♀. Nong Kok, Ghirbi, Peninsular Siam. 5--11 January 1918.

W. ♂ 192, 185; ♀ 194, 181 mm.

134. *DICRURUS ANNECTENS* (Hodgs.).

Robinson, p. 186, Müller, p. 31.

1 ♂ ad. Nong Kok, Ghirbi, Peninsular Siam. 1 January 1918.

4 ♂ ad, 3 ♂ imm, 2 ♀ ad. 2 ♀ imm. Klong Tung Sai, Junk Seylon. 18--26 December 1917.

2 ♀ imm. Telok Poh, Pulau Panjang. 24--26 January 1918.

2 ♂ ad. 4 ♀ ad. 1 ♀ imm. Islet off Pulau Panjang 28--30 January 1918.

1 ♀ imm. Telok Palas, Junk Seylon. 7 February 1918.

1 ♂, ♀, ad. Pulau Sireh. 13 February 1918.

W. ♂ 146, 144, 111, 152, 146, 144, 139, 145, 140, 139, 145; ♀. 146, 141, 142, 132, 142, 144, 147, 145, 142, 145, 148, 139, 141 mm.

No bird of this species has ever been obtained in the middle of the winter in Indo-China north of about 15° N., or in midsummer in Tenasserim and the Malay Peninsular south of about the same latitude, so that we must conclude (as indeed is confirmed by observations in the Straits of Malacca) that this species is a strictly migratory bird and that *Edolius affinis* Blyth, has therefore no existence as a distinct form. A re-examination of the type series of *D. a. siamensis* Kloss (Ibis 1913, p. 226) shows that they are probably not conspecific with this bird.

135. *BUCHANGA LONGICAUDATA INTERMEDIA* Blyth.

Journ. Asiat. Soc. Bengal, p. 298 (1846).

*Dicourus leucophaeus*, Müller, p. 31.

*Dicourus nigrescens* Oates, Faun. Brit. Ind., Birds, i, p. 315 (1889.)

3 ♂, 1 ♀. Islet off Pulau Panjang. 29, 30 January 1918.

W. ♂ 131, 129, 126; ♀ 134 mm.

This form does not extend further south than Kedah town, whence we have four specimens shot in November 1915.

136. *BUCHANGA LEUCOGENYS* Walden.

*Dicourus leucogenys*, Robinson & Kloss, Ibis 1911, p. 72.

*Dicourus leucogenys* var *sabangensis*, Rehnw., Nomencl. Mus. Hein., p. 69. (1890).

*Buchanga leucogenys*, Müller, p. 31.

3 ♂, 2 ♀. 1? Nong Kok, Ghirbi, Peninsular Siam. 2—9 January 1918.

♂, ♀. Klong Tung Sai, Junk Seylon. 25, 26 December 1917.

♀. Telok Palas, Junk Seylon. 7 February 1918.

2 ♂, 1 ♀. Islet off Pulau Panjang. 28—31 January 1918.

W. ♂, 140, 140, 136, 139, 142, 146; ♀. 140, 132, 141, 137; (?) 144 mm.

### 137. DISSEMURUS PARADISEUS.

Nong Koh, Ghirbi, Peninsular Siam. 4 January 1918.

W. 136 mm.

The precise definition of races of *D. paradiseus* is rendered difficult by lack of knowledge as to the exact locality in Siam of the typical specimen of Brisson.

"Siam" as a geographical entity is inhabited by forms to which at least two subspecific names have been applied, beside the typical one viz., *D. p. ranjoanensis* by Gyldenstolpe and *D. p. malayensis* by Kloss.

### 138. ORIOLUS INDICUS Jerd.

Müller, p. 38; Robinson, p. 188.

4 ♂ ad., 6 ♀ ad., 6 ♀ imm. Nong Kok, Ghirbi, Peninsular Siam. 1—12 January 1918.

2 ♂ ad., 2 ♀ ad., 1 ♀ imm. Telok Poh, Pulau Panjang. 20—24 January 1918.

2 ♂ ad., 1 ♀ ad., 1 ♀ imm. Islet off Pulau Panjang. 28—30 January 1918.

1 ♀ imm. Pulau Sireh. 13 February 1918.

W. ♂ 148, 149, 151, 141, 146, 146, 145, 161; ♀ 153, 150, 150, 152, 144, 143, 142, 145, 144 mm.

The adult females, in addition to their greener backs, appear to differ from adults males in being slightly paler yellow beneath, while even in the most adult birds there remain faint traces of shaft stripes on the lower breast feathers.

### 139. ORIOLUS MELANOCEPHALIUS (Linn.).

Müller, p. 40; Robinson, p. 187.

*Oriolus luteolus thalassicus*, Hartert, Bull. Brit. Orn. Club, XXXVIII, p. 63 (1918).

♀. Nong Kok, Ghrbi, Peninsular Siam. 3 January 1918.

W. 126 mm.

We have elsewhere given our reasons for considering that the Indo-Chinese form of this Oriole cannot be regarded as a valid race.

140. *GRACULA JAVANA INTERMEDIA* (A. Hay).

*Eulables intermedia*, Muller p. 36.

1 ♂, 1 ♀. Nong Kok, Ghrbi, Peninsular Siam. 5, 6 January 1918.

3 ♀. Klong Tung Sai, Junk Seylon. 23—27 December 1917.

W. ♂ 164; ♀ 155, 161, 156, 163 mm.

These specimens, all with very small bills, are true *G. j. intermedia* which occurs, together with *G. j. javana*, in Trang.

Specimens from the islands of the Bandon Bight, referred by us to this form, are intermediate between the two races.

141. *APLONIS PANAYENSIS STRIGATUS* (Horsf.).

Robinson, p. 185.

*Calornis chalybeus*, Müller, p. 35.

3 ♂, 1 ♀. Nong Kok, Ghrbi, Peninsular Siam. 3—10 January 1918.

1 ♂, 1 ♀. Telok Poh, Pulau Panjang. 25 January 1918.

1 ♂, 2 ♀. Islet near Pulau Panjang. 28, 29 January 1918.

W. ♂ 94, 99, 103, 102, 99; ♀ 98, 97, 97, 97 mm.

142. *AMPELICEPS CORONATUS* Blyth.

Müller, p. 36.

2 ♂, 1 ♀ Nong Kok, Ghrbi, Peninsular Siam. 31 December—2 January 1918.

W. ♂ 129, 125; ♀ 127 mm.

Slightly immature males have the feathers of the crown mixed with black.

143. *POCEUS MEGARHYNCHUS INFORTUNATUS* Hartert.

♂, ♀. Islet off Pulau Panjang. 29 January 1918.

W. ♂ 69 mm.

144. *MOTACILLA FLAVA SIMILLIMA* Hartert.

Vog. Palaarkt. Faun., i, p. 289.